

**VIRTUAL MACHINE INTERFACE FOR HARDWARE RECONFIGURABLE
AND SOFTWARE PROGRAMMABLE PROCESSORS**

5 This application claims priority to the U.S. Provisional Patent Application
VIRTUAL MACHINE INTERFACE AND APPLICATION PROGRAMMING
INTERFACE FOR HARDWARE RECONFIGURABLE AND SOFTWARE
PROGRAMMABLE PROCESSOR, Serial Number 60/195,096 that was filed April 6,
2000.

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CROSS-REFERENCE TO RELATED APPLICATIONS

Related applications incorporated herein by reference are as follows:

15 A CONFIGURABLE CODE GENERATOR SYSTEM FOR SPREAD SPECTRUM
APPLICATIONS, U.S. Patent Application No. 09/751,782, filed 12/29/2000.

APPARATUS AND METHOD FOR CALCULATING AND IMPLEMENTING A
FIBRONACCI MASK FOR A CODE GENERATOR, U.S. Patent Application No.

20 09/751,776, filed 12/29/2000.

A FAST INITIAL ACQUISITION AND SEARCH DEVICE FOR A SPREAD
SPECTRUM COMMUNICATION SYSTEM, U.S. Patent Application No.

09/751,777, filed 12/29/2000.

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A CONFIGURABLE MULTIMODE DESPREADER FOR SPREAD SPECTRUM
APPLICATIONS, U.S. Patent Application No. 09/751,785, filed 12/29/2000.

A CONFIGURABLE ALL-DIGITAL COHERENT DEMODULATOR SYSTEM

30 FOR SPREAD SPECTRUM APPLICATIONS, U.S. Patent Application No.

09/751,783, filed 12/29/2000.

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A WIRELESS SPREAD SPECTRUM COMMUNICATION PLATFORM USING
DYNAMICALLY RECONFIGURABLE LOGIC, U.S. Patent Application No.
09/772,584, filed January 29, 2001.

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- 5 UNIVERSAL CODE GENERATION, Serial No. 60/222,829, filed 8/3/2000.

MICROFICHE APPENDIX

- A microfiche appendix entitled "Appendix A, Cellular Basestation Modem
Engine (CBME) Virtual Machine Interface Specification, Document Version 2.01," is
10 included in the present application. The microfiche appendix includes 2 microfiche
cards.

BRIEF DESCRIPTION OF THE INVENTION

- This invention relates generally to application programming interfaces. More
15 particularly, this invention relates to a virtual machine interface and/or application
program interface.

BACKGROUND OF THE INVENTION

- A cellular communication system is a wireless communication network in
20 which geographical areas are divided into a number of smaller areas or cells in order to
provide scalability of coverage for multiple users with minimal intercell interference.
A mobile cellular communication system is a cellular communication network in
which the terminal devices (users, mobiles) may be in motion from one location to
another relative to a basestation.

- 25 In a typical digital wireless communication system, multiple basestations are
provided to perform switching and connection services between users or terminal
devices. FIG. 1 illustrates typical cellular wireless communication system
architecture. Basestation 105-1 provides wireless communication system to mobile
stations 101 and 103. Similarly, basestation 105-2 provides wireless communication
30 system to mobile stations 111 and 113. Basestation 105-1 is connected to the
basestation 105-2 via network 107.

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